

**AMENDMENTS TO THE CLAIMS**

1. **(Currently Amended)** Modified ~~A modified~~ factor VIII cDNA, ~~characterized in that wherein~~ in positions where introns 1 and 13 in the genomic factor VIII sequence are inserted, the cDNA of factor VIII also contains one or more spliceable nucleotide sequences or a nucleotide sequence which will be spliced during the export of the pre-mRNA from the nucleus and in addition another spliceable nucleotide sequence which is inserted downstream of the promoter sequence and upstream of the modified factor VIII ~~cDNA~~ cDNA.
2. **(Currently Amended)** Modified ~~The modified~~ factor VIII cDNA as claimed in claim 1, ~~characterized in that wherein~~ in intron positions 1 and/or 13 of the genomic factor VIII sequence one or more complete or truncated introns have been inserted.
3. **(Currently Amended)** Modified ~~The modified~~ factor VIII cDNA as claimed in claim 1, ~~characterized in that wherein~~ in intron positions 1 and/or 13 of the genomic factor VIII sequence one or more natural occurring or synthetic nucleic acid sequences, which retain the ability to be spliced have been inserted.
4. **(Currently Amended)** Modified ~~The modified~~ factor VIII cDNA as claimed in claim 1, ~~characterized in that wherein~~ in intron positions 1 and 13 of the genomic factor VIII sequence a truncated ~~FIX intron~~ factor IX (FIX) intron I has been inserted.
5. **(Currently Amended)** Modified ~~The modified~~ factor VIII cDNA as claimed in claim 1, ~~characterized in that wherein~~ downstream of the promoter and upstream of the FVIII coding sequence one complete or truncated intron has been inserted.
6. **(Currently Amended)** Modified ~~The modified~~ factor VIII cDNA as claimed in claim 1, ~~characterized in that wherein~~ downstream of the promoter and upstream of the FVIII coding sequence one natural occurring or synthetic nucleic acid sequences which retain the ability to be

spliced have been inserted.

7. **(Currently Amended)** ~~Modified~~ The modified factor VIII cDNA as claimed in claim 1, characterized in that wherein downstream of the promoter and upstream of the FVIII coding sequence a  $\beta$ -globin intron 2 has been inserted.

8. **(Currently Amended)** ~~Modified~~ The modified factor VIII cDNA as claimed in claims 1 or 4, characterized in that it comprises a first DNA segment coding for the amino acids 1 through 740 of the human factor VIII and a second DNA segment coding for the amino acids 1649 through 2332 of the human factor VIII, said segments being interconnected by a linker DNA segment coding for a linker peptide of at least two amino acids which are selected from lysine and arginine wherein it represents a recombinant factor VIII lacking the middle heavily glycosylated region of the factor VIII polypeptide chain residing between amino acids Arg-740 and Glu-1649.

9. **(Currently Amended)** ~~Recombinant~~ A recombinant expression vector containing a transcription unit comprising the modified factor VIII cDNA sequence according to claims 1 to 5 claim 1, a transcriptional promoter and a polyadenylation sequence.

10. **(Cancelled)**

11. **(Currently Amended)** ~~Process~~ A process for the production of a biologically active recombinant human factor VIII or its derivative, characterized in that the production is performed by cultivating the animal cell line of claim 10 that comprises the following steps: cultivating a host cell line of animal origin transformed with the recombinant expression vector of claim 9 in a nutrient medium allowing expression and secretion of the human factor VIII or its derivative and recovering said expression product from the culture medium.

12. **(Withdrawn)** The human factor VIII or its derivative whenever prepared by the process

of claim 11.

13. **(Withdrawn)** Pharmaceutical composition containing factor VIII as described in claim 12.

14. **(Withdrawn)** Transfer vector for use in the human gene therapy, characterized in that it comprises a modified factor VIII cDNA as claimed in claims 1 to 5.

15. **(Currently Amended)** A host cell according to ~~claim 10~~ claim 11, characterized in that wherein it is a human cell.

16. **(Cancelled)**